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JA-1985-02

85-077509/13 M27
SUMITOMO METAL IND KK
29.07.83-JP-137655 (14.02.85) C22c-38/22
SUMQ 29.07.83
*J6 0029-448-A

Steel used in high temp. particle erosion environment - comprises carbon, silicon, manganese, chromium, molybdenum, iron with vanadium, niobium, titanium, tungsten or nickel

M(27-A4, 27-A4C, 27-A4M, 27-A4S)

1 6 d

C85-033796

Steel consists wt. of C 0.02-0.5%, Si 0.1-1.0%, Mn 0.2-2.0%, Cr 0.3-20.0%, Mo 0.2-2.5%, additional at least 1 of Ti, V, Nb and W by less than 1.5% and Ni less than 2.0% and the balance Fe with incidental impurities. The steel structure consists by vol. of ferrite less than 40% and the balance martensite, bainite or the same tempered. The C component is by more than 0.10% for carbon steel while by more than 0.02% for alloy steel.

ADVANTAGE - In a coal heat steam boiler, solid fly ash floates in combustion gas flow or drops as klinker, so that a boiler tube receives particle erosion damage, but this is restrained by the invention. The erosion resistance is gradually improved as volume of ferrite is decreased. (6pp Dwg.No.0/0)

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